

FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA FINAL EXAMINATION FOR MEDICAL DEGREES -August 2022 MEDICINE PAPER 1

1 st August 2022	(1.00 – 4.00pm) 3 hours
Index Number:	

Instructions:

- 1. Write your index number in all the pages.
- 2. Answer all questions.
- 3. Write your answers in the space given after each part of the question.
- 4. The space given is adequate for the expected answer.
- 5. Normal values are given within brackets.
- 6. Please return the question book at the end of the examination.

Index	Index No Final MBBS Examination, August 2022, Medicine			
Arter had a breat down	T is diagnosed with ischemic hear y Bypass Grafting after the coronar progressively worsening shortness hlessness has increased to a point he Patient is anxious and restless.	y angiogram revealed tripl of breath over the past one	e vessel disease. He has e week. Today the	
	ist three (3) other physical signs yo		(15marls)	
	st three (3) investigations that will attent describing expected findings.	be useful in the immediate		
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inde	x No Final MBBS Examination, August 2022, Medicine
D. S	State four (4) immediate treatment measures that you would start on this patient. (20 marks)
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	Patient makes a good recovery over the next few days with inward treatment. List five (5) medicines he should be prescribed to reduce the likelihood of readmission with the
	condition mentioned in A. (25 marks)
F.	In addition to taking medicines as prescribed, state two (2) other advices you would give this patient on discharge. (20 marks

lno	dex No	Final MBBS	Examination, August 2022, M	ledicine
,		ents with fever and productiv	ve cough for three days and sev	eral
Or mi of	n examination he is febri inute and pulse rate is 12	le, delirious and dyspnoeic. I O per minute with a blood pro	His respiratory rate is 32 cycles ressure of 85/55mmHg. Ausculthing over the right mid and low	tation
A.	What is the complete c	linical diagnosis?	(10	marks)
В.	List four (4) clinical fe the condition mentione	atures present in this patient d in part A.	which indicates adverse outcome (10	me of marks)
<u></u>		ening complications that cou	ld develop in this patient.	
				

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D. List five (5) inv	estigations that you would	ld request within t	he first 24 hours a	nd highlight	
their relevance	in the management.			(30 marks)	

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	the antimicrobial therapy				
patient giving r	easons for your choice (d	oses not required).		(20 marks)	
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After an initial recovery, on the sixth day	after admission, patient become	es gradually
dyspnoeic with recurrence of high fever w	ith chills and rigors. Examinati	ion reveals stony
dullness and absent breath sounds over the	e right hemithorax.	
F. What complication could explain this	clinical picture?	(10 marks)
	,	,
G. What is the management of the compl	ication mentioned in E2	(10marks)
O. What is the management of the compr	ication mentioned in F:	(10marks)
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3) A 20-year-old medical student is admir She has no previous medical problems an she is icteric, temperature 100 °F with a te	d is not on long-term	medications. On exar	
Investigations:			
Hb - 11g/dL (11.5-14.5)			
WBC - 4.5 x 10 ⁹ /L (4-11 x 10 ⁹)			
Platelet count - 180 x 10^9 /L (150-450 x 1	09)		
Serum total bilirubin - 4.5mg/ dL (0.1 - 1	,2)		•
SGPT 1200 IU/L (5- 42)			
Urine bile – present			
A. What is the most likely clinical diagno	sis?	(5 marks)
B. Give three (3) etiological agents which confirm each three of them.	n can cause above illr	-	would 0 marks)

(15 marks)

C. State briefly the initial management of this patient.

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Three days later the patient is found to be drowsy, deeply icteric and has	flapping tremors.	
D. What complication is suspected according to the above findings.	(10 marks)	
b. What complication is suspected according to the above intenings.	(10 marks)	
E. Discuss briefly how you would manage the above complication.	(30 marks)	
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	F. List three steps that can be taken to prevent spre	ad of a similar illness among close
	contacts.	(10 marks)
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4) A 45-year-old farmer presents with few urine output for one day.	er, headache and myalgia for four days and reduced
Investigations on admission are given bel	ow.
Hb – 13.5g/dL (11.5-14.5)	
WBC – 14.5 x 10 ⁹ /L (4-11 x 10 ⁹)	
Platelets $- 125 \times 10^9 / L (150-450 \times 10^9)$	
CRP - 124 mg/dL (<6mg/dL)	
A. What is the most likely diagnosis?	(10 marks)
	elicit in this patient to support the diagnosis
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C. Mention four (4) additional investigation the expected results.	tions you would perform in this patient and explain (20 mark)
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D. Outline the management of this patie	nt during the fi	rst 24 hours of	f admission.	(30 marks)
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On the day 2 of admission (day 6 of the				
E. List two (2) likely causes for shortne				(10 marks)
	·			
F. Mention three (3) investigations and causes of shortness of breath listed in		ney would help	p in differen	tiating the (20 marks)
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Ind	ex No		Final MBBS	Examination, A	August 2022, Medicine
we	ight gain for the l	oman complains of la ast six months. She l with her husband wh	nas been well p	reviously apart 1	from mild intermittent
and					ressure 120/82 mmHg ystem and abdomen is
A.	What is the most	likely diagnosis?			(10 marks)
В.		er physical signs tha			iagnosis in A.
					(20 marks)
					,
C.	What investigati	on will you arrange	to confirm the c	liagnosis?	(10 marks)
D.	List three (3) ad the reasons for p	_	ns you will con	sider in this pati	ient and state briefly (30 marks)
		, .			

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B	
E. State briefly how you wo	ould start treatment and monitor this patient in the follow up
visits.	(30 marks)
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6) A 54-year-old man is admitted with difficulty in speech and weakness of body on waking up in the morning at 6.00 a.m. He had gone to the toilet at any difficulty. He is on treatment for hypertension and diabetes mellitus an suboptimal.	5.00 a.m. without
On examination he is obese and has right sided flaccid hemiparesis with globlood pressure on admission is 230/120 mmHg.	obal aphasia. His
A. What is the most likely diagnosis?	(10 marks)
B. What is the most likely arterial territory involved?	(10 marks)
C. List three (3) investigations you would request on admission that would immediate management.	d help in the (15 marks)
D. What therapeutic intervention is indicated immediately?	(10 marks)

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e in D has given the desired outcome.	tervention (15 marks)
	(
List three (3) other medications you would start on this patient.	(15 marks)
List <b>two (2)</b> other non-pharmacological measures indicated for this patient t	o improve his
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1 I C	eresults of the investigations you mentioned in C are normal. Therapeutic in the in D has given the desired outcome.  What specific intervention should be started now?  List three (3) other medications you would start on this patient.  List two (2) other non-pharmacological measures indicated for this patient the disability.  List three (3) important advises you would give to this patient on discharge

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7) A 72-year-old woman presents with worsening shortness of breath and fatigue for one
month. She has recently been treated for respiratory tract infection.
On examination, she is pale but not icteric and has multiple bruises on her skin. Her pulse
rate is 88 beats per minute, blood pressure 120/80 mmHg with a soft ejection systolic murmur at base of the heart. Chest examination is normal.
Full Blood Count (FBC) on admission is given below.
Hb – 5.4 g/dL (11.5-14.5 g/dL)
MCV- 85 fL (78-100 fL)
MCHC- 33 g/dL (31-37 g/dL)
MCH- 30 pg (27-32 pg)
WBC- 16 X 10 ⁹ /L (4-11 X 10 ⁹ )
Platelets – 88 X 10 ⁹ /L (150 – 400 X 10 ⁹ )
A. What are the haematological abnormalities seen in this patient's full blood count?
(15 marks)
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B. List three (3) possible causes for the haematological abnormalities seen in this patient.
(15 marks)
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C. List one (1) supportive feature you would elicit either in the history or exami support of each of the condition mentioned in B.	nation in (15 marks)
D. List three (3) investigations that would support to differentiate the three (3)	
mentioned in B and state the expected findings in each of the condition.	(30marks)
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On the fifth day of her hospitalization, she develops high fever. On examination,	, her pulse
rate is 120 per minute and blood pressure is 90/60 mmHg.	•
FBC shows Hb $-$ 5.2g/dL, WBC- 0.8 X 10 9 /L with 30% neutrophils and platelet 10 9 /L.	count 72 X
E. What complication has she developed?	(10 marks)

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F. Outline three (3) steps in the immediate management of this patient. (15 mar	ks)
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8) A 65-year-old man presents with fever and dysuria for 5 days. Apart from the right renal angle tenderness, the rest of the examinations is normal. Following investigations are done at day 1 and day 5 of hospital admission. He complains of reduced urine output on day 5.

	Day 1	Day 5
Urine full report	RBC- 8/HPF	RBC- 4/HPF
	Pus cells- field full	Pus cells- 10-15/HPF
	Protein +	Protein +
Serum creatinine (0.8-1.1 mg/dL)	1.0 mg/dL	2.8 mg/dL
WBC (4-11 X 10 ⁹ /L)	12.5 X 10 ⁹ /L	8.9 X 10 ⁹ /L
Heamoglobin (11.5-15.5 g/dL)	12.5 g/dL	11.2 g/dL
Sodium (135-150 mmol/L)	149 mmol/L	145 mmol/L
Potassium (3.5-5.5 mmol/L)	4.5 mmol/L	5.5 mmol/L

A.	at is the likely diagnosis for the reduced urine output considering the laboratory				
	findings on day five?	(10 marks)			
В.	Mention three (3) possible causes in this patient for the condition mentioned in	ı A. (15 marks)			
	Write one (1) supportive feature either in the history or in examination for each of mentioned in B.	*********			

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D. Mention four (4) further investigations that you would order on day	5 and explain the
reasons for your choice.	(30 marks)
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E. Discuss briefly the management of this patient on day 5.	(25 marks)
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